

FLASH PASTEURIZATION

Automatic Unit

- Gentle and precise heat treatment
- Consistent Pasteurization
- Heat recovery up to 96%



Pasteurization is a heat treatment with the purpose of improving the microbiological stability of the beverage in order to prolong its shelf life. While reducing the number of harmful microorganisms, uniform and gentle treatments are required to maintain the original taste and appearance of the beverage.

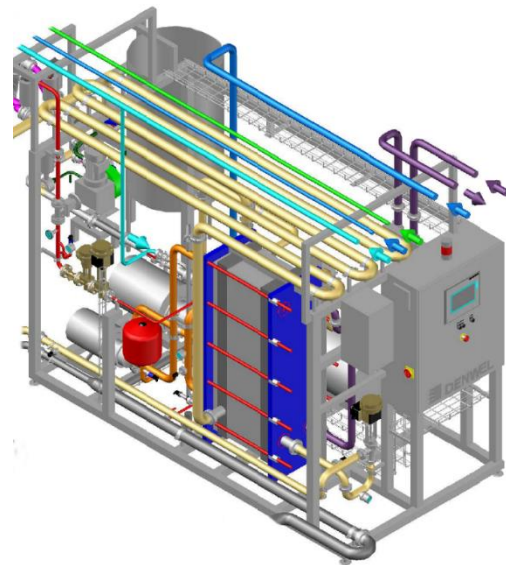
FLASH PASTEURIZATION

Principle

Cold beer enters the regenerative zone of the plate heat exchanger being pre-heated by already pasteurized beer and is then heated up to the pasteurization temperature and held in the holding tube during the pasteurization time. Pasteurized beer is then cooled down in the regenerative zone and if required, cooled in the cooling zone to the filling temperature.

Flash pasteurizer is typically installed in front of a filler which speed often varies considerably. To keep the required pasteurization units (PU) within tight limits, we use intelligent control in combination with a buffer tank, capable to match variations in filler demand. If the filling capacity decreases, the flow has to be reduced as well. Lower flow means longer holding time and therefore the pasteurization temperature has to be decreased to keep the same PU.

The control reduces the flow according to the heat exchanger characteristics and increases the level in the buffer tank. When the filling capacity increases again, the level in the buffer tank will be lowered and the nominal pasteurization values will be re-established. This way any over- and under-pasteurization can be avoided and gentle and consistent treatment is always guaranteed.



Technical specifications

PU range: 10 to 150 PU
 Pressure: up to 16 barg
 Heat recovery: 94 to 96%
 Models:

| | | | | | |
|---------|-------|-----|-----------------|---------------|-------------------|
| DFP010A | DN 25 | 1" | 5 to 10 hl/h | 2 to 4 gpm | 4 to 8 bbls/h |
| DFP015A | DN 25 | 1" | 8 to 15 hl/h | 3 to 6 gpm | 6 to 12 bbls/h |
| DFP025A | DN 25 | 1" | 13 to 25 hl/h | 6 to 11 gpm | 11 to 21 bbls/h |
| DFP040A | DN 40 | 1½" | 20 to 40 hl/h | 9 to 17 gpm | 17 to 34 bbls/h |
| DFP050A | DN 40 | 1½" | 25 to 50 hl/h | 11 to 22 gpm | 21 to 42 bbls/h |
| DFP075A | DN 40 | 1½" | 38 to 75 hl/h | 17 to 33 gpm | 32 to 63 bbls/h |
| DFP100A | DN 50 | 2" | 50 to 100 hl/h | 22 to 44 gpm | 43 to 85 bbls/h |
| DFP150A | DN 65 | 2½" | 75 to 150 hl/h | 33 to 66 gpm | 64 to 127 bbls/h |
| DFP200A | DN 65 | 2½" | 100 to 200 hl/h | 44 to 88 gpm | 85 to 170 bbls/h |
| DFP250A | DN 80 | 3" | 125 to 250 hl/h | 55 to 110 gpm | 107 to 213 bbls/h |